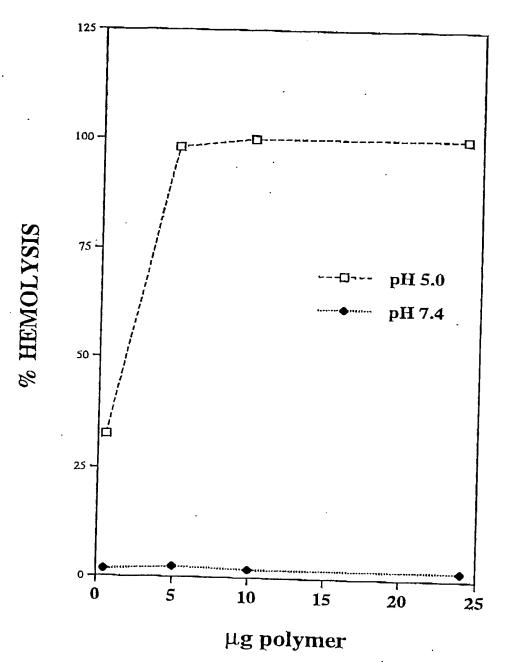
## HEMOLY S BY ACETAL-PEG- POLYMER



### **Experimental Conditions**

- (1) 2% RBCs in 1ml PBS buffer
- (2) Incubation temperature 37C
- (3) Incubation time 20 minutes
- (4) Experiments done in triplicate STD < 2%

## roso*fishme*ssa

# Acid-Degradable Bonds Enhance Endosomal Drug Release of Targeted Polymer Carrier

"Unmasked" backbone disrupts endosomal endosome Disrupted Acid-degradable Endocytosis linker Membrane-disruptive polymer backbone "mask" backbone **Grafted PEGs Fargeting** ligand

directly, or linked by PEG, -S-S- or (PEG/-S-S-) bonds DRUG ( ) may be conjugated, or complexed to backbone, each via an acid-degradable bond.

membrane

PEG-DRUG delivered into cytoplasm. Free DRUG or

Encrypted Polymer E1: X = Y = Methoxy Encrypted Polymer E2: X = Fluorescein, Y = Lactose Encrypted Polymer E3: X = Hexalysine, Y = Lactose

## Figure 5 TEA 3 Silica Gel Styrene Benzaldehyde Chromotagraphy Monomer Methyl-Amino Benzaldehyde Vinyl Benzyl Chloride 2 in Methanol Silica Gel Chromotagraphy 2,2, Dithiopyridine Mercaptopropanol Hydroxypropyl-mercaptothiopyridal

Figure 5 Continued

Encrypted Polymer E1: X = Y = Methoxy Encrypted Polymer E2: X = Fluorescein, Y = Lactose Encrypted Polymer E3: X = Hexalysine, Y = Lactose

